

Claims

1. A convertible vehicle with foldaway top, in particular, a folding top (2), with a top compartment (6) receiving the top in its open position, which compartment can be closed by a top compartment lid (8) extending within the rear carbody contour,

5 which is pivotably supported with one end by means of a hinge device (7) with a support part (15) on the vehicle carbody and with the other end interacts relative to the folding top (2) with at least one locking device (10) provided in the area of a lateral top cloth side rail (9) of the top (2), in whose area the top compartment lid (8) can be locked on the top cloth side rail (9) by a push-pivot movement and unlocked in the opposite direction, characterized in that as a drive of the top compartment lid (8) at least one lifting drive (11) is provided that is supported at a spacing (A) to the hinge device (7) and pivotably connected to the top compartment lid (8), and in that the top compartment lid (8) in the area of the hinge device (7) is pivotable (arrow G, arrow K) relative to the support part (15).

10 15 2. The convertible vehicle according to claim 1, characterized in that the lifting drive (11) is connected to the top compartment lid (8) by means of an actuator (12).

20 3. The convertible vehicle according to claim 1 or 2, characterized in that the top compartment lid (8) and the support part (15) are pivotable together and relative to one another.

4. The convertible vehicle according to one of the claims 1 to 3, characterized in that the top compartment lid (8) is movable on a movement path (D, G, K, K') that is determined substantially by the actuator (12) of the lifting drive (11) and the support part (15) of the hinge device (7).

5. The convertible vehicle according to one of the claims 1 to 4, characterized in
that the guide unit that is comprised of actuator (12) and hinge device (7) has at
least three hinges, wherein a connection (13) of the lifting drive (11) on the actuator
(12) supporting the top compartment lid (8), a pivoting connection (14) of the top
compartment lid (8) to the support part (15) of the hinge device (7), and a pivoting
support (16) provided thereat for the support part (15) are provided as a serial
arrangement of hinges.

10. The convertible vehicle according to one of the claims 1 to 5, characterized in
that the serial arrangement comprises more than three active hinges (13, 14, 16,
17) and the latter define partial movement paths (D, E, F, G, K, K') of the hinge
kinematics.

15. The convertible vehicle according to one of the claims 1 to 6, characterized in
that the lifting drive (11) having a lifting axis (H) is supported in the lower rear area
of the vehicle carbody by means of a hinge connection (17) enabling its pivoting
action (arrow C) about a vertical support axis (P).

8. The convertible vehicle according to claim 7, characterized in that the lifting drive
(11) is pivotably supported on its end opposite the pivot connection (13) to the
actuator (12), respectively.

20. The convertible vehicle according to claim 7 or 8, characterized in that the lifting
drive (11) is pivotable parallel to the longitudinal center axis (M) of the vehicle.

10. The convertible vehicle according to one of the claims 1 to 9, characterized in
that the top compartment lid (8) comprises at least one hydraulic cylinder (20) as a
lifting drive (11), which lifting cylinder is pivotably connected to a lever arm (18)

provided as the actuator (12) whose other end is stationarily connected to the underside of the top compartment lid (8).

11. The convertible vehicle according to one of the claims 1 to 10, characterized in that the lever arm (18) provided with the pivotably connected lifting drive (11) is supported in the area between the forward locking device (10) and the rear hinge device (7) on the top compartment lid (8).

12. The convertible vehicle according to one of the claims 1 to 11, characterized in that the hinge device (7) has an L-shaped pivot lever (21) as a support part (15) pivotably supporting the top compartment lid (8), wherein the lever in the opening phase (path D) is movable against a stop (22) and in the closing phase is pivoted away from it.

13. The convertible vehicle according to one of the claims 1 to 12, characterized in that upon actuation of the lifting drive (11) two movement phases (D and G) passing substantially continuously into one another can be imparted onto the top compartment lid (8).

14. The convertible vehicle according to one of the claims 1 to 13, characterized in that the respective movement of the top compartment lid (8) in the area of the locking device(s) (10) provided in the area of the side rails (9) is effective, at least over phases thereof, as a push movement (F, F') for locking or unlocking the locking device(s).

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15. The convertible vehicle according to one of the claims 1 to 14, characterized in that the guide unit, comprised respectively of the lifting drive (11) and hinge device (7), at least over phases thereof during the opening or closing movement interacts

synchronously with the movable parts of the locking devices (10).

16. The convertible vehicle according to one of the claims 1 to 15, characterized in that the locking device (10) at the front end of the top compartment lid (8) is comprised of two modules each comprising an abutment (24, 24') and a catch hook (25, 25'), of which modules one provides a connection to the top cloth side rail (9) and the other provides a connection to the vehicle carbody.

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10 17. The convertible vehicle according to one of the claims 1 to 16, characterized in that the abutments (24, 24') of the two locking modules are slide guides, respectively, in which the catch hooks (25, 25') are guided during the push movement phase (F, F').

18. The convertible vehicle according to one of the claims 1 to 17, characterized in that the locking modules are provided with at least one tactile sensor for detecting the position of the catch hook (25, 25').

15 19. The convertible vehicle according to one of the claims 1 to 18, characterized in that the abutment (24, 24') in the area of the slide guide has adjustable guide paths.